



Dual Column Trial Report

Missouri - Audrain

Tracking Name: OFGC20126783_0004	Exp Type: Genetic
Business Partner: Riedel; Gary	County: Audrain
State: Missouri	Planting Date: 4/8/2020
Harvest Date: 9/22/2020	

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P0688AM	219.0	22.0	\$815	11
2	Pioneer	P0977AM	230.0	24.2	\$835	8
3	Pioneer	P1077AM	250.4	25.3	\$898	3
4	Pioneer	P1213AM	239.8	24.7	\$866	5
5	Pioneer	P1244AM	221.3	24.8	\$798	10
6	Pioneer	P1359AM	254.3	27.9	\$886	2
7	Pioneer	P1197AM	237.8	25.6	\$850	6
8	Pioneer	P1380AM	240.8	26.3	\$854	4
9	Pioneer	P1464AML	258.8	27.6	\$905	1
10	Pioneer	P1548AM	234.3	26.9	\$826	7
11	Pioneer	P0977AM	224.1	25.3	\$804	9

Missouri - Audrain

Tracking Name: OFGC20126783_0037	Exp Type: Genetic
Business Partner: Cin-Way LLC	County: Audrain
State: Missouri	Planting Date: 4/21/2020
Harvest Date: 9/29/2020	

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P1244AM	226.4	17.8	\$880	4
2	Pioneer	P0688AM	188.7	17.0	\$740	10
3	Pioneer	P0977AM	206.9	17.7	\$805	9
4	Pioneer	P1077AM	231.9	18.3	\$897	3
5	Pioneer	P1213AM	220.2	17.5	\$859	5
6	Pioneer	P1359AM	233.6	17.7	\$909	2
7	Pioneer	P1197AM	250.7	17.0	\$983	1
8	Pioneer	P1380AM	212.2	17.9	\$824	8
9	Pioneer	P1464AML	218.7	18.5	\$844	6
10	Pioneer	P1548AM	217.8	20.1	\$827	7

Missouri - Audrain

Tracking Name: OFGC20126783_0048 **Exp Type:** Genetic
Business Partner: Cox Farms, LLC **County:** Audrain
State: Missouri **Planting Date:** 4/22/2020
Harvest Date: 10/22/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P0688AM	219.5	15.4	\$874	9
2	Pioneer	P0977AM	225.8	14.4	\$903	8
3	Pioneer	P1077AM	233.9	16.1	\$925	6
4	Pioneer	P1213AM	286.7	15.9	\$1,136	1
5	Pioneer	P1244AM	213.3	15.0	\$853	10
6	Pioneer	P1359AM	271.5	15.6	\$1,079	2
7	Pioneer	P1197AM	231.2	15.1	\$924	7
8	Pioneer	P1380AM	237.4	15.5	\$945	3
9	Pioneer	P1464AML	237.0	15.0	\$948	4
10	Pioneer	P1548AM	234.0	16.7	\$920	5

Missouri - Franklin

Tracking Name: OFGC20126783_0035 **Exp Type:** Genetic
Business Partner: Scheer; Wayne **County:** Franklin
State: Missouri **Planting Date:** 5/4/2020
Harvest Date: 10/5/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P0977AM	184.5	17.1	\$723	8
2	Pioneer	P1077AM	203.5	17.4	\$794	3
3	Pioneer	P1213AM	213.4	17.7	\$831	2
4	Pioneer	P1244AM	193.8	17.6	\$755	5
5	Pioneer	P1359AM	214.8	17.6	\$837	1
6	Pioneer	P1197AM	201.9	17.4	\$788	4
7	Pioneer	P1380AM	192.6	17.5	\$751	7
8	Pioneer	P1464AML	193.0	19.4	\$738	6
9	Pioneer	P1548AM	184.4	19.0	\$708	9
10	DeKalb	DKC62-53RIB	176.1	18.4	\$680	10

Missouri - Franklin

Tracking Name: OFGC20126782_0036 **Exp Type:** Genetic
Business Partner: Borcharding; Dale **County:** Franklin
State: Missouri **Planting Date:** 4/22/2020
Harvest Date: 10/4/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P1077AM	200.9	17.2	\$786	1
2	Pioneer	P1213AM	178.5	16.8	\$701	9
3	Pioneer	P1359AM	194.6	17.3	\$760	4
4	Pioneer	P1197AM	194.4	17.3	\$760	5
5	Pioneer	P1380AM	181.0	17.5	\$706	8
6	Pioneer	P1464AML	191.6	18.0	\$743	6
7	Pioneer	P1548AM	166.7	18.0	\$647	10
8	Pioneer	P1870AM	183.5	18.1	\$711	7
9	Pioneer	P1903AM	196.0	19.1	\$752	3
10	Pioneer	P2042AML	198.6	19.0	\$763	2

Missouri - Lincoln

Tracking Name: OFGC20126783_0067 **Exp Type:** Genetic
Business Partner: Keeteman; Neal **County:** Lincoln
State: Missouri **Planting Date:** 6/2/2020
Harvest Date: 10/16/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P0977AM	157.4	17.0	\$617	7
2	Pioneer	P1077AM	165.3	14.9	\$661	3
3	Pioneer	P1244AM	160.3	15.4	\$639	4
4	Pioneer	P1359AM	155.9	15.6	\$620	8
5	Pioneer	P1197AM	166.7	15.8	\$661	2
6	Pioneer	P1380AM	158.0	17.1	\$619	5
7	Pioneer	P1464AML	157.9	17.5	\$616	6
8	Pioneer	P1548AM	173.4	17.9	\$673	1

Missouri - Lincoln

Tracking Name: OFGC20126783_0069
Business Partner: Shaw; Daniel
State: Missouri

Exp Type: Genetic
County: Lincoln
Planting Date: 6/1/2020

Harvest Date: 10/22/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P0688AM	160.3	16.4	\$632	10
2	Pioneer	P0977AM	202.1	16.2	\$799	1
3	Pioneer	P1077AM	196.1	16.3	\$774	4
4	Pioneer	P1213AM	197.5	18.4	\$763	3
5	Pioneer	P1244AM	189.6	18.0	\$736	6
6	Pioneer	P1359AM	200.2	16.8	\$786	2
7	Pioneer	P1197AM	182.4	17.4	\$712	9
8	Pioneer	P1380AM	184.2	17.1	\$721	7
9	Pioneer	P1464AML	182.6	18.9	\$702	8
10	Pioneer	P1548AM	192.5	18.8	\$741	5

Missouri - Lincoln

Tracking Name: OFGC20126783_0072
Business Partner: Schlote; William
State: Missouri

Exp Type: Genetic
County: Lincoln
Planting Date: 6/7/2020

Harvest Date: 11/12/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P0977AM	141.4	15.1	\$565	5
2	Pioneer	P1077AM	148.1	15.0	\$592	2
3	Pioneer	P1197AM	143.0	15.3	\$570	4
4	Pioneer	P1213AM	129.8	15.8	\$515	9
5	Pioneer	P1244AM	139.2	15.0	\$557	7
6	Pioneer	P1359AM	146.9	15.2	\$586	3
7	Pioneer	P1380AM	154.2	14.9	\$617	1
8	Pioneer	P1464AML	140.4	14.8	\$562	6
9	Pioneer	P1548AM	137.3	14.8	\$549	8

Missouri - Lincoln

Tracking Name: OFGC20126783_0073
Business Partner: Kdb Inc
State: Missouri

Exp Type: Genetic
County: Lincoln
Planting Date: 5/12/2020

Harvest Date: 10/16/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P0688AM	132.2	14.0	\$529	18
2	Pioneer	P0977AM	133.8	14.3	\$535	17
3	DeKalb	DKC59-82RIB	135.2	14.0	\$541	15
4	Pioneer	P1077AM	127.9	14.1	\$512	20
5	DeKalb	DKC60-80RIB	122.3	14.3	\$489	21
6	DeKalb	DKC60-88RIB	139.8	13.9	\$559	11
7	Pioneer	P1197AM	134.7	14.3	\$539	16
8	DeKalb	DKC61-98RIB	143.3	14.8	\$573	10
9	Pioneer	P1213AM	149.6	15.4	\$596	5
10	Pioneer	P1244AM	146.2	14.3	\$585	6
11	DeKalb	DKC62-53RIB	145.5	13.7	\$582	7
12	DeKalb	DKC62-89RIB	144.4	13.8	\$578	9
13	Pioneer	P1359AM	139.0	13.8	\$556	13
14	Pioneer	P1380AM	151.1	14.2	\$604	4
15	DeKalb	DKC63-57RIB	153.6	14.3	\$614	3
16	Pioneer	P1464AML	160.1	16.3	\$632	1
17	DeKalb	DKC64-35RIB	145.4	15.1	\$581	8
18	DeKalb	DKC64-65RIB	136.8	13.9	\$547	14
19	Pioneer	P1548AM	131.5	15.4	\$524	19
20	DeKalb	DKC65-95RIB	155.1	14.8	\$620	2
21	DeKalb	DKC65-99RIB	139.5	15.5	\$555	12

Missouri - Lincoln

Tracking Name: OFGC20131261_0001
Business Partner: Stanek; Frank
State: Missouri

Exp Type: Genetic
County: Lincoln
Planting Date: 4/21/2020

Harvest Date: 9/24/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P1380AM	190.5	19.1	\$731	1
2	Beck's	6282	174.9	19.4	\$669	2

Missouri - Lincoln

Tracking Name: OFGC20131262_0001 **Exp Type:** Genetic
Business Partner: Stanek; Frank **County:** Lincoln
State: Missouri **Planting Date:** 4/21/2020
Harvest Date: 9/20/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P1244AM	177.1	19.4	\$677	2
2	Beck's	5828AM	177.6	19.2	\$681	1

Missouri - Lincoln

Tracking Name: OFGC20134927_0001 **Exp Type:** Genetic
Business Partner: Menne; William **County:** Lincoln
State: Missouri **Planting Date:** 5/20/2020
Harvest Date: 11/1/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P1077AM	173.5	17.9	\$674	2
2	Channel	209-15VT2P	168.7	16.7	\$663	3
3	Pioneer	P1077AM	178.0	17.8	\$692	1
4	Channel	209-15VT2P	161.9	16.4	\$639	4

Missouri - Monroe

Tracking Name: OFGC20126783_0031 **Exp Type:** Genetic
Business Partner: Mitchell; Guy **County:** Monroe
State: Missouri **Planting Date:** 4/21/2020
Harvest Date: 11/6/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	NK Brand	NK0821-3120AEZR	162.8	13.6	\$651	1
2	NK Brand	NK1026-3330EZR	160.9	13.4	\$644	3
3	Channel	209-15SSTXRIB	162.3	13.4	\$649	2
4	NK Brand	NK1082-3330AEZR	150.7	13.8	\$603	14
5	NK Brand	NK1188-5122EZR	145.0	13.6	\$580	17
6	NK Brand	NK1239-5122EZR	157.6	13.2	\$630	8
7	Beck's	6282	152.1	13.6	\$608	12
8	NK Brand	N1523-3220EZR	159.5	13.8	\$638	5
9	Pioneer	P0688AM	151.2	13.7	\$605	13
10	Pioneer	P0977AM	158.6	13.5	\$634	7
11	Pioneer	P1077AM	149.9	13.6	\$600	15
12	Pioneer	P1213AM	154.4	13.8	\$618	11
13	Pioneer	P1244AM	155.9	13.8	\$624	9
14	Pioneer	P1359AM	154.8	13.5	\$619	10
15	Pioneer	P1197AM				
16	Pioneer	P1380AM	159.5	13.4	\$638	6
17	Pioneer	P1464AML	149.2	13.3	\$597	16
18	Pioneer	P1548AM	160.9	13.4	\$644	4

Missouri - Monroe

Tracking Name: OFGC20126783_0058 **Exp Type:** Genetic
Business Partner: Heinecke; Nathan **County:** Monroe
State: Missouri **Planting Date:** 5/11/2020
Harvest Date: 10/31/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P0688AM	130.0	15.2	\$519	10
2	Pioneer	P0977AM	147.2	15.4	\$586	7
3	Pioneer	P1077AM	155.5	15.7	\$618	3
4	Pioneer	P1213AM	149.1	15.4	\$594	6
5	Pioneer	P1244AM	145.7	15.3	\$581	8
6	Pioneer	P1359AM	156.0	14.7	\$624	2
7	Pioneer	P1197AM	163.8	14.8	\$655	1
8	Pioneer	P1380AM	143.0	14.4	\$572	9
9	Pioneer	P1464AML	153.8	15.4	\$613	4
10	Pioneer	P1548AM	149.7	15.5	\$596	5

Missouri - Pike

Tracking Name: OFGC20126782_0038 **Exp Type:** Genetic
Business Partner: Mahsman; Phil **County:** Pike
State: Missouri **Planting Date:** 4/21/2020
Harvest Date: 10/10/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P0977AM	195.3	16.2	\$772	9
2	Pioneer	P1077AM	190.2	14.6	\$761	11
3	Pioneer	P1213AM	155.8	17.4	\$608	12
4	Pioneer	P1359AM	201.8	16.1	\$798	8
5	Pioneer	P1197AM	192.7	15.3	\$768	10
6	Pioneer	P1380AM	206.4	16.9	\$810	7
8	Pioneer	P1464AML	207.7	18.4	\$803	6
9	Channel	215-60TRERIB	229.4	17.7	\$893	3
10	Pioneer	P1548AM	219.0	18.8	\$843	5
11	DeKalb	DKC66-18RIB	233.5	19.2	\$895	2
12	Pioneer	P1870AM	234.0	20.3	\$886	1
13	Pioneer	P1903AM	226.4	20.1	\$859	4
14	Pioneer	P2042AML				

Missouri - Ralls

Tracking Name: OFGC20131835_0001 **Exp Type:** Genetic
Business Partner: Withheld by Request **County:** Ralls
State: Missouri **Planting Date:** 4/21/2020
Harvest Date: 10/6/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P1197AM	235.6	16.1	\$932	1
2	Agrigold	A6442VT2RIB	206.2	16.0	\$817	4
3	Pioneer	P0977AM	229.5	16.0	\$909	2
4	Pioneer	P1077AM	220.7	16.5	\$870	3

Missouri - Warren

Tracking Name: OFGC20126782_0002 **Exp Type:** Genetic
Business Partner: Riegel Land and Cattle Inc **County:** Warren
State: Missouri **Planting Date:** 4/7/2020
Harvest Date: 9/24/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P1077AM	241.0	18.2	\$933	2
2	Pioneer	P1213AM	233.5	19.1	\$896	8
3	Pioneer	P1359AM	234.4	18.8	\$902	6
4	Pioneer	P1197AM	229.9	18.5	\$887	9
5	Pioneer	P1380AM	238.2	18.7	\$918	4
6	Pioneer	P1464AML	252.4	19.7	\$962	1
7	Pioneer	P1548AM	235.3	19.7	\$897	5
8	Pioneer	P1870AM	229.2	20.5	\$866	10
9	Pioneer	P1903AM	239.8	21.0	\$902	3
10	Pioneer	P2042AML	234.2	21.0	\$881	7

Missouri - Warren

Tracking Name: OFGC20126782_0030 **Exp Type:** Genetic
Business Partner: Loehnig; Dwayne **County:** Warren
State: Missouri **Planting Date:** 5/4/2020
Harvest Date: 10/15/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P1077AM	247.8	14.7	\$991	8
2	Pioneer	P1213AM	256.2	15.9	\$1,016	3
3	Pioneer	P1359AM	251.3	15.1	\$1,004	7
4	Pioneer	P1197AM	251.7	14.7	\$1,007	5
5	Pioneer	P1380AM	245.6	14.6	\$982	9
6	Pioneer	P1464AML	258.3	15.4	\$1,029	2
7	Pioneer	P1548AM	228.8	15.5	\$911	10
8	Pioneer	P1870AM	251.7	16.7	\$990	6
9	Pioneer	P1903AM	259.5	16.6	\$1,021	1
10	Pioneer	P2042AML	253.4	16.6	\$997	4

Missouri - Warren

Tracking Name: OFGC20126795_0008 **Exp Type:** Genetic
Business Partner: Mebruer; Nick **County:** Warren
State: Missouri **Planting Date:** 4/20/2020
Harvest Date: 11/7/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P1464AML	214.1	13.9	\$856	2
2	Pioneer	P1548AM	194.4	14.3	\$778	7
3	Pioneer	P1380AM	214.2	13.7	\$857	1
4	Pioneer	P1359AM	194.5	14.3	\$778	6
5	Pioneer	P1213AM	201.2	14.5	\$805	3
6	Pioneer	P1077AM	190.4	14.1	\$762	8
7	Pioneer	P0977AM	195.0	13.8	\$780	4
8	Pioneer	P1464AML	195.0	14.1	\$780	5

Missouri - Warren

Tracking Name: OFGC20126783_0045 **Exp Type:** Genetic
Business Partner: Hecktor; Jeremy **County:** Warren
State: Missouri **Planting Date:** 4/21/2020
Harvest Date: 9/25/2020

Entry #	Brand	Hybrid/Brand	Yield (bu/a 56#)	Mst (%)	AGI	Yield Rank
1	Pioneer	P0688AM	179.5	15.6	\$714	13
2	Pioneer	P0977AM	225.1	16.4	\$888	10
3	Pioneer	P1077AM	235.4	16.6	\$927	9
4	Pioneer	P1213AM	213.5	18.8	\$822	11
5	Pioneer	P1244AM	212.6	16.7	\$836	12
6	Pioneer	P1359AM	256.1	17.3	\$1,001	4
7	Pioneer	P1197AM	252.0	16.8	\$990	5
8	Pioneer	P1380AM	236.0	17.8	\$918	8
9	Pioneer	P1464AML	265.0	18.6	\$1,022	1
10	Pioneer	P1548AM	242.9	19.0	\$933	7
11	Pioneer	P1870AM	248.4	20.5	\$939	6
12	Pioneer	P1903AM	262.7	20.5	\$993	2
13	Pioneer	P2042AML	256.6	19.3	\$982	3

Search Criteria:

General:

Company: Pioneer
CropYears: 2020
Season: 1
Experiment Type: Genetic
Harvested: Harvested

Crop: Corn Grain
Weigh Devices: Weighed
Irrigation Types: Non-irrigated
Brittle Snap: No

Geography:

Countries: United States
States/Provinces: Missouri
Counties/Divisions: Warren, Franklin, Pike, Audrain, Monroe, Lincoln, Ralls

Sales Structure:

Commercial Units:
Sales Areas:
Sales Districts:
Territories:

Experiment:

Groups:
Experiment:

Price Details:

Market Price: \$4.00
Market Price Adjustments: Standard-\$0.00, Drydown-\$0.04; High Oil-\$0.00, Drydown-\$0.04; High Oil SX-\$0.00, Drydown-\$0.04; White-\$0.50, Drydown-\$0.04; Waxy-\$0.35, Drydown-\$0.04;

Notes and Explanations:

(1) $YIELD = (100 - MOISTURE) \times (LBS. \text{ OF GRAIN}) \times (FACTOR) \div (HARVESTED \text{ LENGTH IN FEET}) \div (HARVESTED \text{ WIDTH IN INCHES})$. Not applicable if weighed with Yield Monitor. Yield monitor yields are estimates of yield taken from the yield monitor data files. Yield estimate calculations are dependent on the equipment and software manufacturer. Yield estimates from a yield monitor can vary significantly from actual yields of hybrids/varieties at a single point, within areas of a field or in aggregate. Any number of factors such as inappropriate calibration, machine settings, machine dynamics, grain characteristics, temperature, slope, operator error, etc. can impact the accuracy of yield monitor yield estimates.

Temperature, rainfall and solar radiation are estimates based on available data from weather stations in the area. Crop growth indices for individual hybrids, including estimates of silking and maturity dates, are produced by the proprietary EnClass® crop growth model using this weather information. Though crop growth indices produced by the model are calibrated based on historical field observations of products, they may not accurately reflect the growth stage at an individual location.

Where shown, soil information is provided by Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database available online at <http://soildatamart.nrcs.usda.gov>.

Information and results contained herein represent the average of all comparisons across the area indicated. Results may not predict future performance and may not be complete. Testing accuracy, area variations and a limited environmental base can give misleading results. Multi-year and multi-location information is a better predictor of future performance. Please use this information as only one component of your product positioning decision.

Insecticide Seed Treatment (IST): Indicates insecticide seed treatment was purchased on the seed. Fungicide Seed Treatment (FST): Indicates fungicide seed treatment was purchased on the seed.

Nematicide Seed Treatment (NST): Indicates nematicide seed treatment was purchased on the seed.

*** ** Since the trait/segment information is derived from each competitor's own product information, Pioneer makes no representations or warranties as to its accuracy, completeness or suitability.

All Pioneer products are hybrids unless designated with AM1, AM, AMRW, AMT, AMX and AMXT, in which case they are brands.

Segments:

HX1 - Contains the Herculex® I Insect Protection gene which provides protection against European corn borer, southwestern corn borer, black cutworm, fall armyworm, western bean cutworm, lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; and suppresses corn earworm. HXRW - The Herculex® RW insect protection trait contains proteins that provide enhanced resistance against western corn rootworm, northern corn rootworm and Mexican corn rootworm. HXX - Herculex® XTRA contains the Herculex I and Herculex RW genes. YGCB - The YieldGard® Corn Borer gene offers a high level of resistance to European corn borer, southwestern corn borer and southern cornstalk borer. The gene also offers a moderate level of resistance to corn earworm and common stalk borer; and above average resistance to fall armyworm. LL - Contains the LibertyLink® gene for resistance to Liberty® herbicide. RR2 - Contains the Roundup Ready® Corn 2 trait that provides crop safety for over-the-top applications of labeled glyphosate herbicides when applied according to label directions. WX - Waxy. WH - White food corn. YFC - Yellow food corn; AQ - Optimum® AQUAmax® hybrid. BMR - Brown MidRib Corn.

RW,HX1,LL,RR2 (Optimum® TRIssect®) - Contains the Herculex I gene for above-ground pests and the Agrisure® RW trait for resistance to corn rootworm. AM1 - Optimum® AcreMax® 1 Insect Protection System with an integrated corn rootworm refuge solution includes HXX, LL, RR2. Optimum AcreMax 1 products contain the LibertyLink® gene and can be sprayed with Liberty® herbicide. The required corn borer refuge can be planted up to half a mile away.

AMRW - Optimum® AcreMax® RW Rootworm Protection system with a single-bag integrated corn rootworm refuge solution includes HXRW, LL, RR2. AM - Optimum® AcreMax® Insect Protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton growing counties, a 20% separate corn borer fuge must be planted with Optimum AcreMax products. AMX - Optimum® AcreMax® Xtra Insect Protection system with YGCB, HXX, LL, RR2. Contains a single-bag integrated refuge solution for above- and below-ground insects. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax Xtra products. AMXT (Optimum® AcreMax® XTreme) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax XTreme products. RW,YGCB,HXX,LL,RR2 (Optimum® Intrasect® XTreme) - Contains the Agrisure® RW trait, the YieldGard Corn Borer gene, and the Herculex® XTRA genes for resistance to corn borer and corn rootworm. Optimum Intrasect XTreme will be the major component of Optimum AcreMax XTreme. AVBL,YGCB,HX1,LL,RR2 (Optimum® Leptra®) - Contains the Agrisure Viptera® trait, the YieldGard Corn Borer gene, the Herculex® I gene, the LibertyLink® gene, and the Roundup Ready® Corn 2 trait. AMT - Optimum® AcreMax® TRIssect® Insect Protection System with RW,YGCB,HX1,LL,RR2. Contains a single-bag refuge solution for above and below ground insects. The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® I genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax TRIssect products.

VT2P - Genuity VT Double PRO - Contains the Genuity VT PRO genes and the Roundup Ready® Corn 2 trait. Provides resistance to corn borers and tolerance to glyphosate herbicides. SSTX ζ Genuity SmartStax ζ contains the Genuity VT Triple PRO traits, Herculex XTRA traits, the LibertyLink gene, and the Roundup Ready Corn 2 trait. Provides resistance to corn borers, corn rootworms, tolerance to glyphosate herbicides, and resistance to Liberty herbicide. AV-3110 - Agrisure Viptera® 3110 trait stack - Contains the Agrisure Viptera®, Agrisure® CB, and Agrisure® GT traits. AV-3111 - Agrisure Viptera® 3111 trait stack - Contains the Agrisure Viptera®, Agrisure® CB, Agrisure® RW, and Agrisure® GT traits. YGCB,HX1,LL,RR2 (Optimum® Intrasect®) - Contains the YieldGard® Corn Borer gene and Herculex® I gene for resistance to corn borer. YGCB,HXX,LL,RR2 (Optimum® Intrasect® XTRA) - Contains the YieldGard® Corn Borer gene and the Herculex XTRA genes for resistance to corn borer and corn rootworm. VT2P-RIB - Contains the Genuity® VT Double PRO RIB Complete ζ technology for above-ground insect protection.

AV-3220 - Agrisure® Viptera® 3220 trait stack - Contains the Herculex® I, Agrisure Viptera®, Agrisure® CB, and Agrisure® GT traits. AS-3122 - Agrisure® 3122 trait stack - Contains the Herculex® XTRA, Agrisure® CB, Agrisure® RW, and Agrisure® GT traits. AS-3011A or AS-4011 - Agrisure® 4011 trait stack - Contains the Agrisure 3000GT traits, and Agrisure Artesian(TM) technology. AVBL,CB,LL,GT - Contains the Agrisure Viptera® 3110 trait stack: Agrisure Viptera®, Agrisure® CB and Agrisure® GT traits. AS-3122-EZR - Contains the Agrisure® trait stack and the E-Z Refuge® technology. AS-3011 -

Contains the Agrisure® 3000GT traits. ART - Syngenta traits or trait stacks followed by an Aalso contain the Agrisure® Artesian(TM) technology such as AS-3011A or GTA. GT - Contains the Agrisure® GT trait that provides tolerance to glyphosate herbicides. CB - Contains the Agrisure® CB trait that provides resistance to corn borers. RW - Contains the Agrisure® RW trait that provides resistance to corn rootworms. VT - YieldGard VT Rootworm/RR2 contains both the YieldGard Rootworm gene and the Roundup Ready Corn 2 trait. VT3 - YieldGard VT Triple contains the YieldGard Rootworm gene, the YieldGard Corn Borer gene and the Roundup Ready Corn 2 trait. VT3P - Genuity VT Triple PRO contains the YieldGard VT gene YieldGard Rootworm/RR2), and the Genuity VT PRO gene. Provides resistance to corn borers, corn rootworms, and tolerance to glyphosate herbicides. SSTX-RIB - Contains either the SmartStax® RIB Complete technology or the REFUGE ADVANCED₂ powered by SmartStax® technology. DG - Contains the Genuity® DroughtGard(TM) technology. AV-3220-EZR - Contains the Agrisure Viptera® trait stack and the E-Z Refuge® technology. Herculex® Insect Protection technology by Dow AgroSciences and Pioneer Hi-Bred. Herculex® and the HX logo are registered trademarks of Dow AgroSciences LLC. YieldGard®, the YieldGard Corn Borer Design and Roundup Ready® are registered trademarks used under license from Monsanto Company. Liberty®, LibertyLink®, the Water Droplet Design and Poncho® are trademarks of BASF. Cruiser® is a registered trademark of a Syngenta Group Company. Agrisure®, Agrisure Viptera® and E-Z Refuge® are registered trademarks of, and used under license from, a Syngenta Group Company. Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG.

Product responses are variable and subject to any number of environmental, disease and pest pressures. Individual results may vary. Multi-year and multi-location data are a better predictor of future performance. DO NOT USE THIS OR ANY OTHER DATA FROM A LIMITED NUMBER OF TRIALS AS A SIGNIFICANT FACTOR IN PRODUCT SELECTION. Refer to www.pioneer.com/products or contact a Pioneer sales representative or authorized dealer for the latest and complete listing of traits and scores for each Pioneer® brand product.

Pioneer® brand products are provided subject to the terms and conditions of purchase which are part of the labeling and purchase documents. TM ® SM Trademarks and service marks of Dow AgroSciences, DuPont or Pioneer, and their affiliated companies or their respective owners. © 2019 Corteva.

© 2019 Corteva. All rights reserved. The services associated with providing this information are provided for the grower's individual evaluation of products and conditional upon the grower agreeing that no part of this document, or information provided in this document, may be shared with any third-party including any third-party seed company. Any reproduction or use of this form, or the data contained herein, without prior written permission of Pioneer is strictly prohibited unless you are a Pioneer employee or authorized sales agent of Pioneer.

AGI Calc: Moisture Adjustment: (Moisture - Adjustment Standard) * Dry Down * Yield = Z, AGI = ((Market Price + Premium Adjustment) * Yield) - Z